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Advances in Polyolefins 2009

September 20 - 23 2009

Santa Rosa, California USA

SUNDAY, SEPTEMBER 20

1:30 p.m.	REGISTRATION BEGINS	
2:30 p.m.	James E. McGrath and Pal Arjunan Overview and Objectives of the Workshop	
Key-Note session		
3:00 p.m.	John Nicols , <i>Albemarle Corporation, Baton Rouge, LA</i> Strategies to Serve the Dynamic Global Polyolefins Industry	1
3:40 p.m.	Hans F. VanBrackle , <i>ExxonMobil Chemical Company, Baytown, TX</i> Energy Outlook and Sustainability Challenge	2
4:20 p.m.	Gary Marchand and Colin Li Pi Shan, <i>The Dow Chemical Company, Freeport, TX</i> Directions in Specialty Polyolefins Research	3
5:00 p.m.	Gary M. Diamond , <i>Symyx Technologies, Sunnyvale, CA</i> Industrial High-Throughput Catalyst Discovery & Development and its Application to Academic Research	4
5:40 p.m.	Anand Kumar , <i>Indian Oil Corporation Ltd., Faridabad, Haryana, India</i> Indian Polymer (Polyolefin) Industry - Growth and Perspective	5
6:20 p.m.	END DAILY SESSIONS	
6:30 p.m.	WELCOME RECEPTION	

MONDAY, SEPTEMBER 21

7:30 a.m.	CONTINENTAL BREAKFAST	
INVITED LECTURE SESSION I Discussion Leader, Pal Arjunan		
8:30 a.m.	David J. Lohse , <i>ExxonMobil Corporate Research, Clinton, NJ</i> Tuning Polyolefin Performance by Controlling Chemical Architecture	6
9:00 a.m.	Richard F. Jordan , <i>University of Chicago, Chicago, Illinois</i> Metal Catalyzed Copolymerization of Olefins with Polar Vinyl Monomers	7
9:30 a.m.	Margarete K. Leclerc , <i>Symyx Technologies, Sunnyvale, CA</i> High Throughput Catalyst Discovery and Development for Industrial Application	8
10:00 a.m.	BREAK	
INVITED LECTURE SESSION II Discussion Leader, James E. McGrath		
10:30 a.m.	Pat Brant , <i>ExxonMobil Chemical Company, Baytown, Texas</i> Advances in Separator Film Design for Lithium Ion Batteries	9
11:00 a.m.	Colin Li Pi Shan , Roger Kuhlman, Pam Kenny, and Gary Marchand, <i>The Dow Chemical Company, Freeport, TX</i> Designer Olefin Elastomers for Controlling Oil Solution Properties	10



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MONDAY, SEPTEMBER 21, CONT'D

11:30 a.m.	Zhibin Guan , Chris Popeney, and Guobin Sun, <i>University of California, Irvine, CA</i> Late Transition Metal Polymerization Catalysis: New Complex Synthesis, Mechanistic Investigation, and Novel Polymer Design	11
12:00 noon	LUNCH	
INVITED LECTURE SESSION III Discussion Leader, Pat Brant		
1:30 p.m.	Saeid Mehdiabadi and João B. P. Soares , <i>University of Waterloo, Waterloo, Canada</i> Production of Ethylene/ α -Olefin/1,9-Decadiene Copolymers with Complex Microstructures using a Two-Stage Polymerization Process	12
2:00 p.m.	Paul J. DesLauriers and David C. Rohlfing, <i>Chevron Phillips Chemical Company, Bartlesville, OK</i> Estimating Polyolefin Densities from Molecular Weight and Short Chain Branching Distributions	13
2:30 p.m.	Minoru Terano , <i>JAIST, Kanazawa City, Japan</i> Structure-Oriented Active Site Designs of Traditional Heterogeneous Olefin Polymerization Catalysts	14
3:00 p.m.	BREAK	
INVITED LECTURE SESSION IV Discussion Leader, Dave Lohse		
3:30 p.m.	Lawrence R. Sita , <i>University of Maryland, College Park, MD, USA</i> Precision Polyolefins via Living Coordinative Chain-Transfer Polymerization	15
4:00 p.m.	Franck D'Agosto , Christophe Boisson , and R. Spitz, <i>Université de Lyon, France</i> Polyethylene Building Blocks for New Polymer Architectures	16
4:30 p.m.	Andreas Albrecht, Volker Dolle, Anton Ginzburg, Tibor Macko, Yongmei Wang, and Robert Brüll , <i>GIP, Darmstadt, Germany</i> High Temperature Adsorption Chromatography and 2- Dimensional Liquid CHromatography of Polyolefins	17
5:00 p.m.	Aaron Law, Leonardo C. Simon , and Pearl Lee-Sullivan, <i>University of Waterloo, Waterloo, Canada</i> Thermal and Mechanical Properties of Glass Fiber-Polypropylene Composites for Automotive Applications	18
5:30 p.m.	END DAILY SESSION	
6:00 p.m.	RECEPTION AND POSTER SESSION	



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TUESDAY, SEPTEMBER 22

7:30 a.m.	CONTINENTAL BREAKFAST	
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INVITED LECTURE SESSION VI		
Discussion Leader, Abhi O. Patil, ExxonMobil Corporate Research		
8:30 a.m.	Robert M. Waymouth , Elizabeth Kiesewetter, and Soeren Randoll, <i>Stanford University, CA</i> Novel PP Catalysts: Synthesis and Applications	19
9:00 a.m.	Lubin Luo and Steven P. Diefenbach , <i>Albemarle Corporation, Baton Rouge, LA</i> New Insights into Methylaluminoxane (MAO) Activation of Metallocene Catalyst Systems	20
9:30 a.m.	Stephen A. Miller , <i>University of Florida, Gainesville, FL</i> Future Thermoplastics from Single Site Catalysts	21
10:00 a.m.	BREAK	

INVITED LECTURE SESSION VII		
Discussion Leader, Colin Li Pi Shan		
10:30 a.m.	Anne Hiltner and Eric Baer , <i>Case Western University, Cleveland, OH</i> Adhesion of Elastomeric Olefin Copolymers and Its Relationship to Compatibilization	22
11:00 a.m.	T. C. Mike Chung , <i>The Pennsylvania State University, State College, PA</i> Synthesis of New Thermally Cross-linkable PP Copolymers and Applications in PP Thin Films for High Energy Density Capacitors	23
11:30 a.m.	Massimiliano Delferro , Brandon A. Rodriguez, Michael P. Weberski, Jr., and Tobin J. Marks, <i>Northwestern University, Chicago, IL</i> Nuclearity Effects in Olefin Polymerization Catalysis	24

12:00 noon	LUNCH	
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INVITED LECTURE SESSION VIII		
Discussion Leader, Joao Soares		
1:00 p.m.	Rick King , <i>Ciba Corporation (part of the BASF group); Tarrytown, NY</i> Stabilization of Polyolefins: An Overview of Chemistry and Effects	25
1:30 p.m.	G. Alan Vaughan , <i>ExxonMobil Chemical Company, Baytown, TX</i> Polyolefins – Their Role in Sustainable Development Polyolefins, Catalysts and Sustainability	26
2:00 p.m.	Charles C. Han , <i>Chinese Academy of Sciences, ROC</i> Structure and Morphology of an In-Reactor Alloy of iPP/PEOc Prepared from MRGT (Multi-Catalyst Reactor Granule Technology)	27
2:30 p.m.	Gregory Beaucage , Ramnath Ramachandran , and Amit Kulkarni , <i>University of Cincinnati, Cincinnati OH</i> Branch Content of Metallocene Polyethylene	28



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TUESDAY, SEPTEMBER 22, CONT'D

3:00 p.m.	BREAK	
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3:30 p.m.	Takeshi Shiono , <i>Hiroshima Univ., Japan</i> Precise Synthesis of Cycloolefins Copolymers	29
4:00 p.m.	Christophe Boisson and Roger Spitz, <i>Université de Lyon, France</i> (Cyclo) Copolymerization of Ethylene and Butadiene: Toward New Elastomers	30
4:30 p.m.	Jozef Rychlý and Lyda Matisová-Rychlá , <i>Polymer Institute, Slovak Academy of Sciences, Bratislava, Slovakia</i> Light Emission (Chemiluminescence) from Thermally Oxidized Polyolefins and Prediction of their Remaining Service Life	31
5:00 p.m.	Suracha Udomsak , <i>Thai PE/PP Co Ltd., SCG Chemicals, Bangkok, Thailand</i> TBD	32
5:30 p.m.	END DAILY SESSIONS, DINNER ON YOUR OWN	

WEDNESDAY, SEPTEMBER 23

7:30 a.m.	CONTINENTAL BREAKFAST	
INVITED LECTURE SESSION X Discussion Leader, Donald L. Morrison, Boulder Scientific		
8:30 a.m.	Pal Arjunan , <i>Albemarle Corporation, Baton Rouge, LA</i> Global Trends in Polyolefins Products, Processes, and Catalysts	33
9:00 a.m.	Edwin IJpeij, Eric Arts, Gerard van Doremaele, and Martin Zuidveld <i>DSM Elastomers, Geleen, The Netherland</i> New Generation Polymerization Catalysts For DSM Elastomer - EPDM Production: Keltan ACE™	34
9:30 a.m.	Donald G. Baird , <i>Virginia Tech, Blacksburg, VA</i> Identifying Branching Structure in Sparsely Branched Metallocene Catalyzed Polyethylene using Molecular Rheology	35
10:00 a.m.	BREAK	
INVITED LECTURE SESSION XI Discussion Leader, Pal Arjunan		
10:30 a.m.	Toshiaki Taniike and Minoru Terano , <i>JAIST, Kanazawa City, Japan</i> Theoretical Elucidation of Molecular Behavior of Donors in Ziegler-Natta Propylene Polymerization	36
11:00 a.m.	Wen-Hua Sun , <i>Institute of Chemistry – Chinese Academy of Sciences, Beijing, China</i> Frontier of Late-transition Metal (Fe and Co) Catalysts in Ethylene Polymerization	37
11:30 a.m.	Piyasarn Prasertdam , <i>Chulalongkorn University, Bangkok, Thailand</i> Effects of the External Electron Donor on the Catalyst Activity and Polymer Molecular Weight for the Ethylene Polymerization	38
12:00 noon	Pal Arjunan and James E. McGrath : Closing Remarks	

